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The HP 16500C Logic Analysis System Mainframe and HP 16501A Expansion Frame

Technical Specifications

Mass Storage

Hard Disk Drive MS-DOS[®] compatible formatted disk drive

IDE interface bus

Floppy Disk Drive

Capacity 1.44 MB formatted
Media 3.5 inch floppy
Formats MS-DOS or LIF

Internal RAM Memory

 Standard
 8 MB

 Option 001
 16 MB

LAN, IEEE 802.3

Physical Connectors

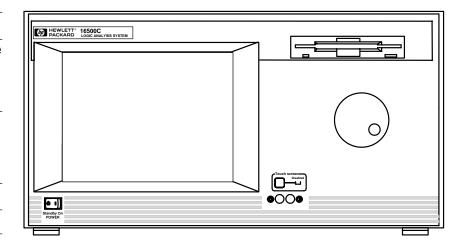
RJ-45 connector for direct connection to 10Base-T ("ethertwist") networks

BNC connector for direct connection to 10Base2 ("thinlan") networks

Protocols Supported TCP/IP NFS FTP

SNMP

Program Interface Instrument settings and operating modes may be remotely programmed through data files transmitted via NFS protocol.



Data Files

ASCII formatted data is available from modules as indicated in the table below. Screen images are available in black and white or color TIFF and PCX file formats.

X Windows Support The HP 16500C supports the X Windows system version 11, release 5, as a client.

LAN NFS Support Matrix

Features	M	easurement Modules	
	HP 16517A HP 16518A HP 16550A HP 16554A HP 16555A/D HP 16556A/D	HP 16533A HP 16534A	HP 16522A
ASCII Data Files	State per Label Timing per Label	Digitized Analog Data	Download Vector Files
Binary Data	Yes	Yes	No
Status Files	Yes	Yes	No
Program Files	Yes	Yes	Yes

Other Interfaces

RS-232-C. 9-Pin Connector

RS-232-C Configurations

Protocols Xon/Xoff, None

Data bits 8

Stop bits 1, 1 1/2, 2

Parity none, odd, even

Baud rates 110, 300, 600, 1200,

2400, 4800, 9600, 19200

HP-IB (IEEE488)

HP-IB interface functions

SH1, AH1, T5, TE0, L3, LE0, SR1, RL1, PP1, DC1, DT1, C0, E2

Centronics Parallel

Printing

Printer Interfaces

Centronics parallel RS-232-C

HP-IB

Printers Supported

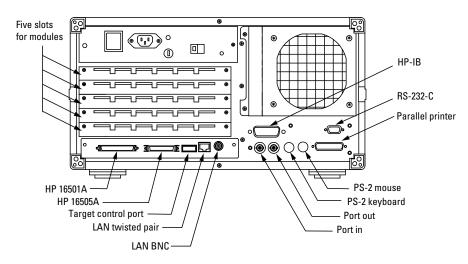
Printers which support the HP Printer Control Language (PCL).

Recommended: HP DeskJet 680C HP LaserJet 4L

Epson FX80, LX80, and MX80 printers with Centronics parallel or RS-232-C interfaces are supported in the Epson 8-bit graphics mode.

Keyboard

Any PS-2 style keyboard with a DIN connector is supported. The HP E2427B keyboard is available which includes an overlay for special function keys. See "Accessories available" below.



HP 16500C rear panel

Intermodule Bus (IMB)

Run Control

Oscilloscope, timing analyzers, state analyzers, and pattern generator modules can be armed by Group Run.

Modules can be armed concurrently (independently) or can be armed in series.

Each module can arm one or more other modules.

HP 16554A, 16555A, 16555D, 16556A, and 16556D modules can trigger each other in an "OR" configuration.

Mixed Display Modes

Any timing or oscilloscope waveform displays from different modules armed together on a group run can be mixed.

Time-correlated state listings can be included with waveforms in the state/timing mixed mode display, provided that time tags are turned on in the state analyzer and the modules are combined in a group run.

Time Interval Accuracy Between Modules

The sum of the channelto-channel time-interval accuracy of each module used in the measurement for a deskewed measurement.

Time Correlation Resolution

2 ns

Port In/Out		Operating E	nvironment
Connectors	BNC	Temperature	
Port In		Instrument	0° to 50 °C (32° to 122 °
Levels	TTL, ECL, or user- defined	Disk media	10° to 40 °C
Input Resistance	4 ΚΩ	Probes and	(50° to 104 °F) 0° to 65 °C
Input Voltage	-6 V at -1.5 mA to $+6$ V at 1.6 mA	cables	(32° to 149 °F)
Port Out			To 3000 m (10,000 ft)
Levels	3-V TTL compatible into 50 Ω	Humidity	8% to 80% relative humidity at 40° C (104°
Functions (user	Latched until next RUN	Vibration, Operating	Random vibration 5 to 500 Hz, 10 minutes pe axis, 0.3 g RMS
selectable)	Latched until STOP	Vibration,	Random vibration 5 to 500 Hz, 10 minutes per axis, 2.41 g RMS Swept sine resonant search, 5 to 500 Hz,
	Pulsed, width from 40 to 80 ns	-	
	Static open-collector		
Target Cont	rol Port		0.75 g (0-peak), 5 minu
Number of Signals	8		dwell at 4 resonances per axis
Levels	3-V TTL compatible	Power	115/230 V, 48 to 66 Hz, 475 W max
Connector	2 x 5 (2 rows; 5 pins/row), 0.1-inch centers	Weight	
		HP 16500C	18.1 kg (40 lb.) +
Functions		(max. net)	[0.7 kg (1.6 lb.) x number of modules]
	Activity indicators are provided on all bits.	HP 16500C (max. shipping)	25.9 kg (57 lb.) + [3.6 kg (8 lb.) x numbe of modules]
	Up to eight vectors can be programmed in memory. Vectors can be sequenced manually.	HP 16501A (max. net)	13.6 kg (30 lb.) + [0.7 kg (1.6 lb.) x numbo of modules]
	Outputs can be individually pulsed, individually set to high, low, or high-impedance, or stepped to the next step of a pre-stored sequence.	HP 16501A (max. shipping)	21.3 kg (47 lb.) + [3.6 kg (8 lb.) x numbe of modules]

Dimensions

222.2 mm (8.75 in) x 425.7 mm (16.76 in) x 548.6 mm (21.6 in) including rear feet, but not bottom feet.

Accessories Supplied

One HP A2839B, 3-button DIN mouse Ten-conductor flying-lead cable for target control port

Accessories Available

HP E2427B, PC-style keyboard with overlay

Warranty

HP hardware products are warranted against defects in materials and workmanship for a period of one year from date of shipment. Some newly manufactured HP products may contain remanufactured parts, which are equivalent to new in performance. If you send notice of defects during the warranty period, HP will either repair or replace hardware products that prove defective.

Configuration

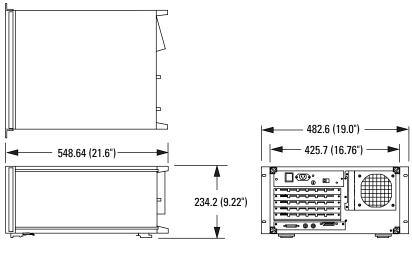
For configuration information, refer to HP pub. no. 5965-3185E.

548.64 (21.6")

556.3 (21.9")

234.2 (9.22")

HP 16500C



HP 16501A

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Technical data is subject to change

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